In the Claims:

Add new claims 60-74 as follows:

60. (New) A method of processing signals in a communication circuit, comprising the steps of:
receiving a plurality of signals from a plurality of receive antennas;
producing a channel estimate in response to a predetermined signal of the plurality of signals; and
multiplying the plurality of signals by the channel estimate and a matrix.

61. (New) A method as in claim 60, comprising the step of despreading the plurality of signals in response to a code.

62. (New) A method as in claim 60, comprising the step of removing interference from the plurality of signals.

63. (New) A method as in claim 60, comprising the steps in any order of:
selecting the matrix from a finite set of matrices;
identifying the selected matrix to a remote receiver; and
calculating a product of the channel estimate and the selected matrix prior to the step of multiplying.

64. (New) A method as in claim 60, comprising the steps in any order of:
converting a group of the plurality of signals to serial signals;
demodulating the serial signals;
deinterleaving the serial signals; and
decoding the serial signals.

65. (New) A method as in claim 60, wherein the predetermined signal comprises at least one pilot symbol.

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66.   (New) A method as in claim 60, wherein the matrix is a linear basis transformation matrix.

67.   (New) A method as in claim 60, comprising the step of receiving the plurality of signals from a plurality of remote transmit antennas, wherein the plurality of signals are encoded differently for each respective antenna of the plurality of transmit antennas.

68.   (New) A method of processing signals in a communication circuit, comprising the steps of:
        receiving a plurality of signals;
        modulating the plurality of signals;
        multiplying the plurality of signals by a matrix; and
        transmitting the plurality of signals from a plurality of transmit antennas.

69.   (New) A method as in claim 68, comprising the step of spreading the plurality of signals in response to a code.

70.   (New) A method as in claim 68, comprising the step of selecting the matrix from a finite set of matrices in response to a signal from a remote transmitter.

71.   (New) A method as in claim 68, comprising the steps in any order of:
        encoding the plurality of signals;
        interleaving the plurality signals; and
        converting the plurality of signals to serial signals.

72.   (New) A method as in claim 68, comprising the step of transmitting a predetermined signal to a remote receiver on a channel different from a channel of the plurality of signals.

73.   (New) A method as in claim 68, wherein the matrix is a linear basis transformation matrix.

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